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Application Number

09/268542

Filed

Mar 4, 1999

Paper No. 13

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This collection of information is required by 37 CFR 1.11 and 1.14. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **BRING TO: File Information Unit, Room 2E04, 2900 Crystal Drive, Arlington, Virginia.**

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13

(12) **United States Patent**
Nicolson et al.

(10) Patent No.: **US 6,951,894 B1**
(45) Date of Patent: ***Oct. 4, 2005**

(54) **EXTENDED WEAR OPHTHALMIC LENS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **09/640,526**

(22) Filed: **Aug. 17, 2000**

Related U.S. Application Data

(63) Continuation of application No. 09/262,542, filed on Mar. 4, 1999, now abandoned, which is a continuation of application No. 09/108,714, filed on Jul. 1, 1998, now Pat. No. 5,965,631, which is a division of application No. 08/662,452, filed on Jul. 17, 1996, now Pat. No. 5,849,811, which is a division of application No. 08/569,816, filed on Dec. 8, 1995, now Pat. No. 5,760,100, which is a continuation-in-part of application No. 08/301,166, filed on Sep. 6, 1994, now abandoned.

(30) **Foreign Application Priority Data**

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May 19, 1995 (CH) 1496/95

(51) Int. Cl.⁷ **C08K 3/00**
(52) U.S. Cl. **523/107; 523/106; 523/108**
(58) Field of Search **523/106, 107**

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(57)

ABSTRACT

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An ophthalmic lens suited for extended-wear periods of at least one day on the eye without a clinically significant amount of corneal swelling and with a balance of oxygen permeability and ion or water permeability, with the ion or water permeability being sufficient to provide good on-eye movement, such that a good tear exchange occurs between the lens and the eye. A preferred lens is a copolymerization product of a oxypem macromer and an ionopem monomer. The invention encompasses extended wear contact lenses, which include a core having oxygen transmission and ion transmission pathways extending from the inner surface to the outer surface.

84 Claims, No Drawings

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